

COMPUTER DATA ENTRY AND MANIPULATION
APPARATUS AND METHOD

5

ABSTRACT OF THE DISCLOSURE

Apparatus is disclosed for generating control
10 signals for the manipulation of virtual objects in a
computer system according to the gestures and positions
of an operator's hand or other body part. The apparatus
includes a glove worn on the hand which includes
sensors for detecting the gestures of the hand, as well
15 as hand position sensing means coupled to the glove and
to the computer system for detecting the position of
the hand with respect to the system. The computer
system includes circuitry connected to receive the
gesture signals and the hand position signals for
20 generating control signals in response thereto.
Typically, the control signals are used to manipulate a
graphical representation of the operator's hand which
is displayed on a monitor coupled to the computer
system, and the graphical representations of the
25 operator's hand manipulates virtual objects or tools
also displayed by the computer.

30

35